

**IRC-3**Log # 10-13  
(for office use only)

**WASHINGTON STATE BUILDING CODE COUNCIL**  
**APPLICATION FOR REVIEW OF A PROPOSED STATEWIDE AMENDMENT**  
**TO THE WASHINGTON STATE BUILDING CODE**

**1. State Building Code to be Amended.**

- |  |  |
|--|--|
| <input type="checkbox"/> International Building Code               | <input type="checkbox"/> Ventilation and Indoor Air Quality Code |
| <input checked="" type="checkbox"/> International Residential Code | <input type="checkbox"/> International Mechanical Code           |
| <input type="checkbox"/> ICC ANSI A117.1 Accessibility Code        | <input type="checkbox"/> International Fuel Gas Code             |
| <input type="checkbox"/> International Fire Code                   | <input type="checkbox"/> NFPA 54 National Fuel Gas Code          |
| <input type="checkbox"/> Uniform Plumbing Code                     | <input type="checkbox"/> NFPA 58 Liquefied Petroleum Gas Code    |
| <input type="checkbox"/> State Energy Code                         |  |

Section 403.4, 404.1Page 87, 90**2. Applicant:**Anne O'Rourke**3. Signed:**

Anne O'Rourke \_\_\_\_\_ Title \_\_\_\_\_ Date 2-28-10  
Proponent

**4. Contact Person:**Anne O'Rourke \_\_\_\_\_  
Name TitleAddress: PO BOX 1246Port Angeles, WA 98362Phone: 360 417-5615

Fax: ( ) \_\_\_\_\_

**RECEIVED**

MAR 01 2010

**SBCC**

## FOUNDATIONS

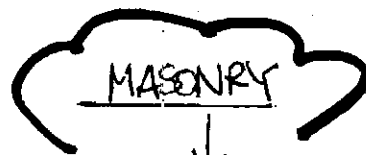


TABLE R404.1.1(3)  
10-INCH FOUNDATION WALLS WITH REINFORCING  
WHERE  $d > 6.75$  INCHES<sup>a,c</sup>

WALL HEIGHT	HEIGHT OF UNBALANCED BACKFILL <sup>a</sup>	MINIMUM VERTICAL REINFORCEMENT AND SPACING (INCHES) <sup>b,c</sup>		
		Soil classes and later soil load <sup>d</sup> (psf per foot below grade)		
		GW, GP, SW and SP soils 30	GM, GC, SM, SM-SC and ML soils 45	SC, ML-CL and inorganic CL soils 60
6 feet 8 inches	4 feet (or less)	#4 at 56	#4 at 56	#4 at 56
	5 feet	#4 at 56	#4 at 56	#4 at 56
	6 feet 8 inches	#4 at 56	#5 at 56	#5 at 56
7 feet 4 inches	4 feet (or less)	#4 at 56	#4 at 56	#4 at 56
	5 feet	#4 at 56	#4 at 56	#4 at 56
	6 feet	#4 at 56	#4 at 56	#5 at 56
	7 feet 4 inches	#4 at 56	#5 at 56	#6 at 56
8 feet	4 feet (or less)	#4 at 56	#4 at 56	#4 at 56
	5 feet	#4 at 56	#4 at 56	#4 at 56
	6 feet	#4 at 56	#4 at 56	#5 at 56
	7 feet	#4 at 56	#5 at 56	#6 at 56
	8 feet	#5 at 56	#6 at 56	#6 at 48
8 feet 8 inches	4 feet (or less)	#4 at 56	#4 at 56	#4 at 56
	5 feet	#4 at 56	#4 at 56	#4 at 56
	6 feet	#4 at 56	#4 at 56	#5 at 56
	7 feet	#4 at 56	#5 at 56	#6 at 56
	8 feet 8 inches	#5 at 56	#6 at 48	#6 at 32
9 feet 4 inches	4 feet (or less)	#4 at 56	#4 at 56	#4 at 56
	5 feet	#4 at 56	#4 at 56	#4 at 56
	6 feet	#4 at 56	#5 at 56	#5 at 56
	7 feet	#4 at 56	#5 at 56	#6 at 56
	8 feet	#5 at 56	#6 at 56	#6 at 40
	9 feet 4 inches	#6 at 56	#6 at 40	#6 at 24
10 feet	4 feet (or less)	#4 at 56	#4 at 56	#4 at 56
	5 feet	#4 at 56	#4 at 56	#4 at 56
	6 feet	#4 at 56	#5 at 56	#5 at 56
	7 feet	#5 at 56	#6 at 56	#6 at 48
	8 feet	#5 at 56	#6 at 48	#6 at 40
	9 feet	#6 at 56	#6 at 40	#6 at 24
	10 feet	#6 at 48	#6 at 32	#6 at 24

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 pound per square foot per foot = 0.157 kPa/mm.

a. Mortar shall be Type M or S and masonry shall be laid in running bond.

b. Alternative reinforcing bar sizes and spacings having an equivalent cross-sectional area of reinforcement per lineal foot of wall shall be permitted provided the spacing of the reinforcement does not exceed 72 inches.

c. Vertical reinforcement shall be Grade 60 minimum. The distance,  $d$ , from the face of the soil side of the wall to the center of vertical reinforcement shall be at least 6.75 inches.

d. Soil classes are in accordance with the Unified Soil Classification System and design lateral soil loads are for moist conditions without hydrostatic pressure. Refer to Table R405.1.

e. Unbalanced backfill height is the difference in height between the exterior finish ground level and the lower of the top of the concrete footing that supports the foundation wall or the interior finish ground level. Where an interior concrete slab-on-grade is provided and is in contact with the interior surface of the foundation wall, measurement of the unbalanced backfill height from the exterior finish ground level to the top of the interior concrete slab is permitted.

## FOUNDATIONS

TABLE R403.4  
MINIMUM DEPTH OF CRUSHED STONE FOOTINGS (D), (Inches)

		LOAD BEARING VALUE OF SOIL (psf)															
		1500				2000				3000				4000			
		MH, CH, CL, ML				SC, GC, SM, GM, SP, SW				GP, GW							
		Wall width (Inches)				Wall width (Inches)				Wall width (Inches)				Wall width (Inches)			
		6	8	10	12	6	8	10	12	6	8	10	12	6	8	10	12
Conventional light-frame construction																	
1-story	1100 plf	6	4	4	4	6	4	4	4	6	4	4	4	6	4	4	4
2-story	1800 plf	8	6	4	4	6	4	4	4	6	4	4	4	6	4	4	4
3-story	2000 plf	16	14	12	10	10	8	6	6	6	4	4	4	6	4	4	4
4-inch brick veneer over light-frame or 8-inch hollow concrete masonry																	
1-story	1500 plf	6	4	4	4	6	4	4	4	6	4	4	4	6	4	4	4
2-story	2700 plf	14	12	10	8	10	8	6	4	6	4	4	4	6	4	4	4
3-story	4000 plf	22	22	20	18	16	14	12	10	10	8	6	4	6	4	4	4
8-inch solid or fully grouted masonry																	
1-story	2000 plf	10	8	6	4	6	4	4	4	6	4	4	4	6	4	4	4
2-story	3600 plf	20	18	16	16	14	12	10	8	8	6	4	4	6	4	4	4
3-story	5300 plf	32	30	28	26	22	22	20	18	14	12	10	8	10	8	6	4

For SI: 1 inch = 25.4 mm, 1 pound per square inch = 6.89 kPa.

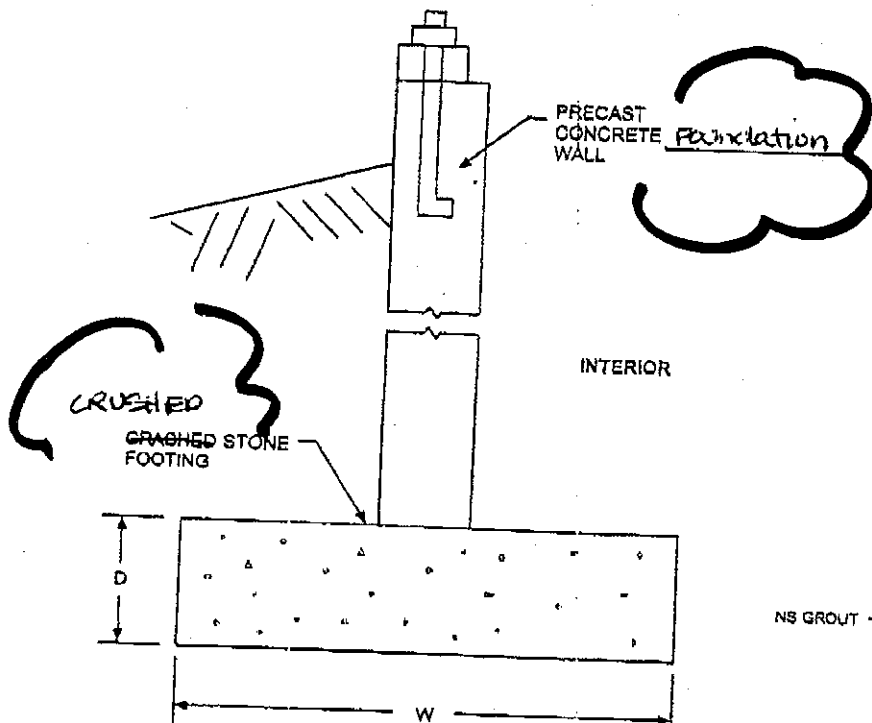


FIGURE R403.4(1)  
BASEMENT OR CRAWL SPACE WITH PRECAST CONCRETE  
FOUNDATION WALL BEARING ON CRUSHED STONE

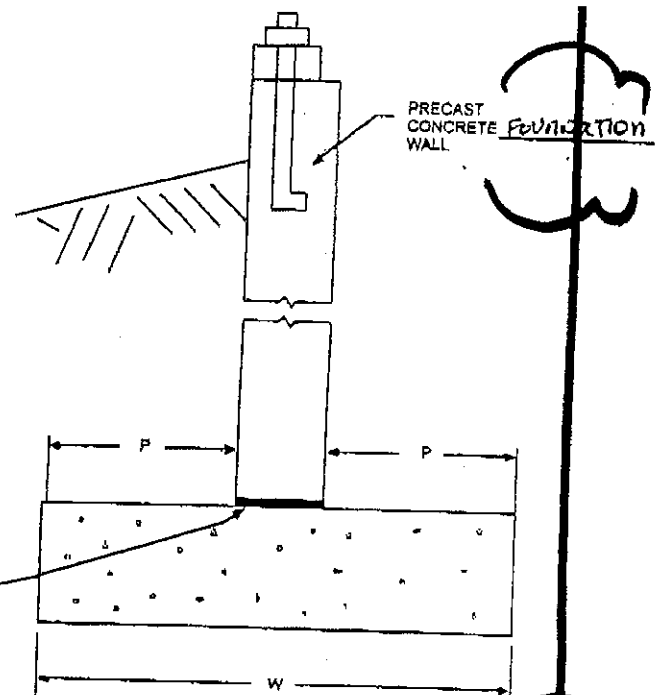


FIGURE R403.4(2)  
BASEMENT OR CRAWL SPACE WITH PRECAST CONCRETE  
FOUNDATION WALL ON SPREAD FOOTING

Y / ~~N~~ Recommend future benefit/impact review